

Sheet 1 of 5

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ATTY. DOCKET NO.

910000-2001

SERIAL NO.

09/870,544

APPLICANT

R. Rox Anderson et al.

FILING DATE

May 30, 2001

GROUP

3739

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>A</i>	AA	US 5,653,706	08/05/97	Zavislan et al.			
	AB	US 5,501,680	03/26/96	Kurtz et al.			
	AC	US 5,634,920	06/03/97	Hohla			
	AD	US 5,827,264	10/27/98	Hohla			
	AE	US 5,865,828	02/02/99	Jeng			
	AF	US 5,865,832	02/02/99	Knopp et al.			
	AG	US 5,931,779	08/03/99	Arakaki et al.			
	AH	US 6,047,080	04/04/00	Chen et al.			
	AI	US 5,963,676	10/05/99	Wu et al.			
	AJ	US 6,146,390	11/14/00	Heilbrun et al.			
	AK	US 5,860,967	01/19/99	Zavislan et al.			
	AL	US 6,190,377	02/20/01	Kudrall			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<i>A</i>	AM	WO 00/62700	10/26/00	WIPO				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>A</i>	AN	Bantel et al., Global Tracking of the Ocular Fundus Pattern Imaged by Scanning Laser Ophthalmoscopy, International Journal Biomedical Computing, Vol. 27, 1990, pp. 59-69
	AO	E.L. Sebern, C.J.H. Brennan, R.R. Anderson, and I.W. Hunter, Laser treatment of nevus flammeus (port wine stain) with spectroscopic feedback: The Smart Scalpel Proc. SPIE, vol. 3519, pp. 32-42, 1999 • Vol. 3519 (A) 2129/96
	AP	E.L. Sebern, C.J.H. Brennan, R.R. Anderson, and I.W. Hunter, Tissue modification with feedback: the 'Smart Scalpel' Proc. SPIE, vol. 3519, pp. 62-69, 1998
	AQ	J.H.C. Inderfurth, R.D. Ferguson, M.B. Frish, and R. Birngruber, Dynamic reflectometer for control of laser photocoagulation on the retina Lasers in Surgery and Medicine, vol. pp. 54-61, 1994
	AR	E. L. Sebern, C.J.H. Brennan, R.R. Anderson and I.W. Hunter, Design and Characterization of a laser-based instrument with spectroscopic feedback control for treatment of vascular lesions: the Smart Scalpel, Journal of Biomedical Optics, October 2000, Vol. 05(04), pp. 375-382
	AS	R.B. Stewart, A. Benbrahim, G.M. LaMuraglia, M. Rosenberg, G.J. L'Italien, W.M. Abbott, and R.T.V. Kung, Laser assisted vascular welding with real time temperature control Lasers in Surgery and Medicine, vol. pp. 9-16, 1996

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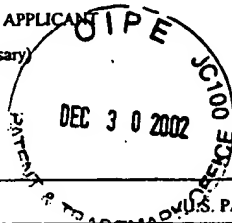
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#	AT	US 4,785,806	11/22/88	Deckelbaum			
	AU	US 5,275,594	01/04/94	Baker et al.			
	AV	US 5,507,287	04/16/96	Palcic et al.			
	AW	US 5,741,215	04/21/98	D'Urso			
	AX	US 5,813,403	09/29/98	Soller et al.			
	AY	US 5,943,354	08/24/99	Lawandy			
	AZ	US 6,006,119	12/21/99	Soller et al.			
	BA	US 6,047,080	04/04/00	Chen et al.			
	BB	US 6,159,202	12/12/00	Sumiya et al.			
	BC	US 3,865,113	02/11/75	Sharon et al.			
	BD	US 4,266,549	05/12/81	Kimura			
	BE	US 4,517,973	5/21/85	Sunago et al.			
	BF	US 5,366,456	11/22/94	Rink et al.			
	BG	US 5,984,915	5,984,915	Loeb et al.			

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

A	BH	Pfeifer, T.J. et al., <i>Modeling Laser Treatment of Port Wine Stains With a Computer-Reconstructed Biopsy</i> , LASERS IN SURGERY AND MEDICINE, Vol. 24, September 1998 (Published 1999), pp. 151-66. *
	BI	Verkruysse, W. et al., <i>Simulation of Color of Port Wine Stain Skin and Its Dependence on Skin Variables</i> , LASERS IN SURGERY AND MEDICINE, Vol. 25, March 1999 (Published 1999), pp. 131-39. *
	BJ	Wimmershoff, M.B. et al., <i>Mixed Capillary/Lymphatic Malformation with Coexisting Port-Wine Stain: Treatment Utilizing 3D MRI and CT-Guided Sclerotherapy</i> , DERMATOLOGIC SURGERY, Vol. 26, No. 6, June 2000, pp. 584-7. *
	BK	Verkruysse, W. et al., <i>Optical Absorption of Blood Depends on Temperature during a 0.5 ms Laser Pulse at 586 nm</i> , PHOTOCHEMISTRY AND PHOTOBIOLOGY, Vol. 67, No. 3, December 1997 (Published 1998), pp. 276-81. *
	BL	Welch A.J. et al., <i>Monte Carlo Model for Determination of the Role of Heat Generation in Laser-Irradiated Tissue</i> , JOURNAL OF BIOMECHANICAL ENGINEERING, Vol. 119, November 1997, pp. 489-95. *
	BM	Garrand T.J. et al., <i>Design and Evaluation of a Fiberoptic Fluorescence Guided Laser Recanalization System</i> , LASERS IN SURGERY AND MEDICINE, Vol. 11, October 1990 (Published 1991), pp. 106-16. *
	BN	O'Brien, K.M. et al., <i>Development and Evaluation of Spectral Classification Algorithms for Fluorescence Guided Laser Angioplasty</i> , IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, Vol. 36, No. 4, April 1989, pp. 424-30. *

EXAMINER

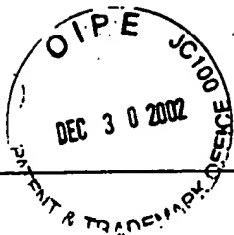
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		FILING DATE May 30, 2001		GROUP 3739	
OTHER PRIORITY ART (Including Author, Title, Date, Pertinent Pages, Etc.)					
A	BO	L. Reinisch, M.H. Mendenhall, and R.H. Ossoff, Precise laser incisions, corrected for patient respiration with an intelligent aiming system <i>Lasers in Surgery and Medicine</i> , vol. pp. 210-215, 1997			
	BP	Sandia National Laboratories, Cancer cells detected in seconds by 'smart scalpel' device. Url: www.sandia.gov/Solution.htm#Bio . 2000			
	BQ	R. Rox Anderson, Laser medicine in dermatology <i>The Journal of Dermatology</i> , vol. 23, pp. 778-782, 1996			
	BR	Serge Mordon, Guy Rotteleur, Jean Marc Brunetaud, and David B. Apfelberg, Rationale for automatic scanners in laser treatment of port wine stains <i>Lasers in Surgery and Medicine</i> , vol. pp. 113-123, 1993			
	BS	R.J. Eble, Physiologic and essential tremor <i>Neurology</i> , vol. pp. 225-231, 1986			
	BT	American Academy of Family Physicians, Classification of tremor and update on treatment, Url: www.aafp.org/afp/990315ap/1565.html			
	BU	S.H. Barsky, S. Rosen, D.E. Geer, and J.M. Noe, The nature and evolution of port wine stains: a computer-assisted study <i>The Journal of Investigative Dermatology</i> , vol. pp. 154-157, 1980			
	BV	M.J.C. van Gemert, J.S. Nelson, T.E. Milner, D.J. Smithies, W. Verkruysse, J.F. de Boer, G.W. Lucassen, D.M. Goodman, B.S. Tanenbaum, and L.T. Norvang, L. O. S., Non-invasive determination of port wine stain anatomy and physiology for optimal laser treatment strategies <i>Physics in Medicine and Biology</i> , vol. pp. 937-950, 1997			
	BW	O.T. Tan, P. Morrison, and A.K. Kurban, 585 nm for the treatment of portwine stains <i>Plastic Reconstruction Surgery</i> , vol. pp. 1112-1117, 1990			
	BX	A.L. McKenzie, Physics of thermal processes in laser-tissue interactions <i>Phys. Med Biol.</i> , vol. 35, pp. 1175-1209, 1990			
	BY	C.C. Dierickx, J. M. Casparian, V. Venugopalan, W.A. Farinelli, and R.R. Anderson, Thermal relaxation of port wine stain vessels probed in vivo: the need for 1-10 millisecond laser pulse treatment <i>The Journal of Investigative Dermatology</i> , vol. 105, pp. 709-714, 1995			
	BZ	W.F. Cheong, S.A. Prah, and A.J. Welch, A Review of the Optical Properties of Biological Tissues <i>IEEE Journal of Quantum Electronics</i> , vol. 26, pp. 2166-2185, 1990			
	CA	M. J. C. Van Gemert, J. W. Pickering, A. J. Welch, and O. T. Tan, Modeling laser treatment of port wine stains <i>Management and treatment of benign cutaneous vascular lesions</i> , vol. pp. 24-47, 1992			
	CB	W. Verkruysse, J.W. Pickering, J. Beek, M. Keijzer, and M. J. C. van Gemert, Modelling the effect of wavelength on the pulsed dye laser treatment of port wine stains <i>Applied Optics</i> , vol. pp. 393-398, 1993			
	CC	R. Rox Anderson, Polarized light examination and photography of the skin <i>Archives of Dermatology</i> , vol. 127(7), pp. 1000-1005, 1991			
	CD	J.B. Dawson, D.J. Barker, D.J. Ellis, E. Grassam, J.A. Cotterill, G.W. Fisher, and J.W. Feather, A theoretical and experimental study of light absorption and scattering by in vivo skin <i>Physics in Medicine and Biology</i> , vol. 25, pp. 695-709, 1980			
CE	K.P. Watts, R.G. Fairchild, D.N. Slatkin, D. Greenberg, S. Packer, H.L. Atkins, and S.J. Hannon, Melanin content of hamster tissues, human tissues, and various melanomas <i>Cancer Research</i> , vol. pp. 467-472, 1981				
CF	R. Rox Anderson and John A. Parrish, The Optics of Human Skin <i>The Journal of Investigative Dermatology</i> , vol. 77, pp. 13-19, 1981				
CG	B.C. Wilson and S.L. Jacques, Optical reflectance and transmittance of tissues: principles and applications <i>IEEE Journal of Quantum Electronics</i> , vol. 26, pp. 2186-2199, 1990				
CH	B.G. Schunck, Edge Detection with Gaussian Filters at Multiple Scales of Resolution <i>Advances in Image Analysis</i> , vol. pp. 75-105, 1992				
CI	F. Holler, D. Burns, and J. Callis, "Direct use of second derivatives in curve-fitting procedures." <i>Applied Spectroscopy</i> , vol. 43, No. 5 (1989) 877-882.				
CJ	M. Blanco, A. Eustaquio, J.M. Gonzalez, D. Serrano, "Identification and quantification assays for intact tablets of two related pharmaceutical preparations by reflectance near-infrared spectroscopy: validation of the procedure", <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 22 (2000) 139-148.				
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F	CL		J.M. Schmitt, A. Knüttel, and R.F. Booner, Measurement of optical properties of biological tissues by low-coherence reflectometry <i>Applied Optics</i> , vol. 32, pp. 6032-6042, 1993	
	CM		R.T. Strehel, U. Utzinger, M. Peitola, J. Schneider, P.F. Niederer, and O.M. Hess, "Excimer laser spectroscopy: Influence of tissue ablation on vessel wall fluorescence." <i>Journal of Laser Applications</i> , vol. 10, No. 1 February 1998, 34-40.	
	CN		Morguet, A.J. et al., <i>Design and Evaluation of a Spectroscopy System to Classify Laser-induced Arterial Fluorescence Spectra</i> , BIOMEDIZINISCHE TECHNIK, Vol. 42, No. 6, 1997, pp. 176-82 (in German; English abstract).	
	CO		T. Lindeberg, Discrete derivative approximations with scale-space properties: A basis for low-level feature extraction <i>Journal of Mathematical Imaging and Vision</i> , vol. 3, pp. 349-376, 1993	
	CP		D. Eberly, R. Gardner, B. Morse, S. Pizer, and C. Scharlach, Ridges for image analysis <i>Journal of Mathematical Imaging and Vision</i> , vol. 4, pp. 351-371, 1994	
	CQ		F.C. Glazer, Fiber identification in microscopy by ridge detection and grouping <i>Proceedings of the IEEE Workshop on Applications of Computer Vision</i> , vol. pp. 205-212, 1992	
	CR		C. Steger, Extracting Curvilinear Structures: A Differential Geometric Approach <i>Fourth European Conference on Computer Vision, Lecture Notes in Computer Science</i> , vol. 1064, pp. 630-641, 1996	
	CS		O. Monga, N. Armande, and P. Montesinos, Thin nets and crest lines: application to satellite data and medical images <i>Computer Vision and Image Understanding</i> , vol. 67, pp. 285-295, 1997	
	CT		J. Canny, A Computational Approach to Edge Detection <i>IEEE Transaction on Pattern Analysis and Machine Intelligence</i> , vol. PAMI 8, pp. 679-698, 1986	
	CU		R.S. Afzal, A.W. Yu, J.J. Zayhowski, and T.Y. Fan, Single Mode, High Peak Power, Passively Q-Switched Diode-Pumped Nd:YAG Laser <i>Optics Letters</i> , vol. 22, pp. 1314-1316, 1997	
	CV		C.D. Nabors, J.J. Zayhowski, R.L. Aggarwal, J.R. Ochoa, J.L. Daneu, and A. Mooradian, High-Power Nd:YAG Microchip Laser Arrays <i>Optical Society of America Proceedings on Advanced Solid-State Lasers</i> , vol. 13, pp. xvii+391, 234-236, 1992	
	CW		J.J. Zayhowski, Microchip Lasers Create Light in Small Places <i>Laser Focus World</i> , vol. 32, pp. 73-74 & 76-8, 1996	
	CX		Arakawa, K. et al., <i>XeCl Excimer Laser-Induced Fluorescence for Selective Ablation of Atherosclerotic Tissue</i> , JAPANESE CIRCULATION JOURNAL, Vol. 55, November 1991, pp. 1094-1105.	
	CY		J.P. Fischer, J. Dams, M.H. Gotz, E. Kerker, F.H. Loesel, C.J. Messer, M.H. Niemi, N. Suhm and J.F. Bille, Plasma-Mediated Ablation of Brain Tissue with Picosecond Laser Pulses, <i>Applied Physics B</i> 58: 493-499 (1994)	
CZ		E.J. Fiskerstrand, L.O. Svaasand, G. Kopstad, M. Dalaker, L.T. Norvang and G. Volden, Laser Treatment of Port Wine Stains: Therapeutic Outcome in Relation to Morphological Parameters, <i>British Journal of Dermatology</i> , 136(3): 467-8 (1997)		
DA		S.L. Jacques, C.A. Alter and S.A. Prahl, Angular Dependence of HeNe Laser Light Scattering by Human Dermis, <i>Laser Life Sci.</i> 1: 309-333 (1987)		
DD		L.O. Reynolds, C.C. Johnson and A. Ishimaru, Diffuse Reflectance from a Finite Blood Medium: Applications to the Modeling of Fiber Optic Catheters, <i>Appl. Opt.</i> 15: 2059-2067 (1976)		
DE		Richards-Kortum, R. et al., 476 nm Excited laser-induced fluorescence spectroscopy of human coronary arteries: <i>Applications in cardiology</i> , AMERICAN HEART JOURNAL, Vol. 122, October 1991, pp. 1141-50.*		
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